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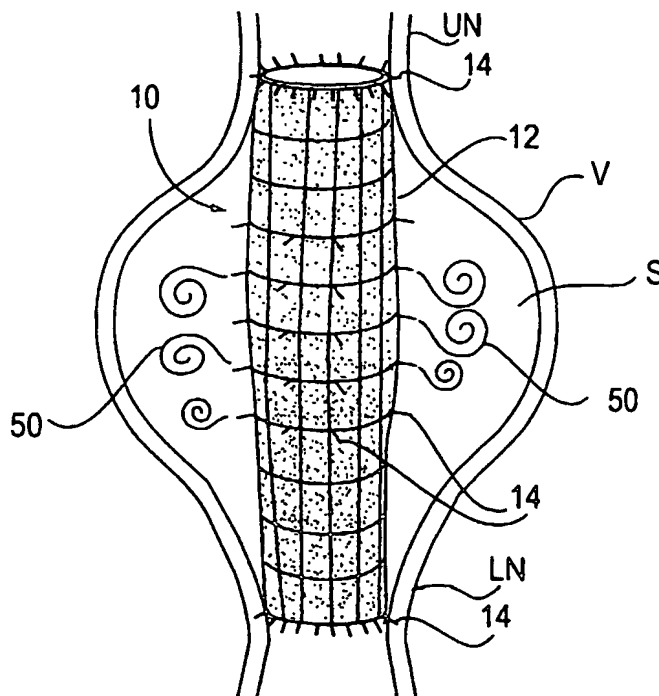
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[Continued on next page]

(54) Title: **METHODS AND APPARATUSES FOR REPAIRING ANEURYSMS**



(57) Abstract: Apparatuses, systems and methods are provided for repairing aneurysms in the vasculature of a patient. An aneurysm is repaired by positioning a tube or graft within the vasculature, extending through the region of the aneurysm to provide a blood flow conduit similar to the native vasculature. The tube is held in place within the vasculature by at least one expandable body having at least one microstructure. The microstructures are attached to the expandable body in a low profile fashion suitable for atraumatic introduction to the vasculature with the use of a catheter or other suitable device. Each microstructure has an end which is attached to the expandable body and a free end. Once the apparatus is positioned within the vasculature in the desired location, the one or more of the microstructures are deployed so that the free ends project radially outwardly. The free ends of the deployed microstructures then penetrate the blood vessel wall by continued expansion of the body for anchoring, reduction or migration or leakage and/or drug delivery.

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